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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

Edward F Murphy Corning Incorporated

Corning, NY 14831

SP-TI-03

02/20/2004

EXAMINER

KIKNADZE, IRAKLI

PAPER NUMBER

ART UNIT

DATE MAILED: 02/20/2004

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
,	10/048 138	01/22/2002	Claude 1 Davis IR	SP00-191	2865

TITLE OF INVENTION: EXTREME ULTRAVIOLET SOFT X-RAY PROJECTION LITHOGRAPHIC METHOD SYSTEM AND LITHOGRAPHIC ELEMENTS

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
_	nonprovisional	NO	\$1330	\$0	\$1330	05/20/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing n applications filed n r after Dec. 12, 1980 may require payment f maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail St p ISSUE FEE Commissioner for Patents P.O. B x 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000			
INSTRUCTIONS: This for appropriate. All further conindicated unless corrected be maintenance fee notification	below or directed otherwise	smitting the ISSUE Fatent, advance orders in Block 1, by (a) sp	EE and PUBLIC and notification ecifying a new co	CATION FEE (if requor of maintenance fees orrespondence address	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sep	hould be completed where correspondence address as arate "FEE ADDRESS" for	
	E ADDRESS (Note: Legibly mark-up	with any corrections or use I	Block I)	Note: A certificate o	f mailing can only be used f	or domestic mailings of the	
				Fee(s) Transmittal. This certificate cannot be used for any other accompanying			
75	90 02/20/2004			papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
Edward F Murphy	y			Ce	ertificate of Mailing or Tran	smission	
Corning Incorporat				I hereby certify that this Fee(s) Transmittal is being deposited v States Postal Service with sufficient postage for first class mail addressed to the Mail Stop ISSUE FEE address above, or transmitted to the USPTO, on the date indicated below.		rst class mail in an envelope above, or being facsimile low.	
Corning, NY 14831	Į.					(Depositor's name)	
				(Signature)			
						(Date)	
						()	
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/048,138	01/22/2002	•	Claude I. Davis JI	₹.	SP00-191	2865	
TITLE OF INVENTION: EX	XTREME ULTRAVIOLET	SOFT X-RAY PROJE	ECTION LITHOO	GRAPHIC METHOD	SYSTEM AND LITHOGRAI	PHIC ELEMENTS	
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nonprovisional	NO	\$1330		\$0	\$1330	05/20/2004	
EXAM	INER	ART UNIT	C	LASS-SUBCLASS			
KIKNADZ	E, IRAKLI	2882		378-084000			
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignme been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.					ate when an assignment has		
Please check the appropriate 4a. The following fee(s) are Issue Fee Publication Fee Advance Order - # of	assignee category or catego enclosed:	ries (will not be printe 4b. Pa	d on the patent); syment of Fee(s): A check in the am Payment by credi	nount of the fee(s) is ent card. Form PTO-203	corporation or other private g nclosed. 8 is attached. charge the required fee(s), or		
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee (if	any) or to re-appl	y any previously paid	issue fee to the application id	entified above.	
(Authorized Signature)		(Date)					
other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or agreed of the United States Page 1	ent; or the assignee of atent and Trademark O	or other party in ffice.				
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450. DO NOT STAND TO Comments on the control of the control	tion is required by 37 CFR by the public which is to five is governed by 35 U.S.C. I ten to complete, including generated the USPTO. Time with the amount of time you	1.311. The information ile (and by the USPT) 1.22 and 37 CFR 1.14. The athering, preparing, and I vary depending upon require to complete to	on is required to O to process) an This collection is d submitting the on the individual his form and/or				



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Corning Incorporate SP-TI-03	ed		ART UNIT	PAPER NUMBER
Corning, NY 14831			2882	
			DATE MAILED: 02/20/200-	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 335 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 335 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
Alada Kalla al-194	10/048,138	DAVIS ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Irakli Kiknadze	2882	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due co	urse. THIS
1. This communication is responsive to			
2. X The allowed claim(s) is/are 1-43.			
3. \boxtimes The drawings filed on <u>22 January 2002</u> are accepted by the	e Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give for including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	been received. been received in Application No cuments have been received in this r of this communication to file a reply of ENT of this application. itted. Note the attached EXAMINER' as reason(s) why the oath or declarate t be submitted.	national stage application complying with the requires SAMENDMENT or NOTtion is deficient.	rements
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	84(c)) should be written on the drawin	gs in the front (not the ba	ck) of
each sheet. Replacement sheet(s) should be labeled as such in the post of the	sit of BIOLOGICAL MATERIAL m	nust be submitted. Not	e the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8. 🛛 Examiner's Stateme	(PTO-413), e nent/Comment	ince
	Cr	aig E. Church nary Examiner	

Application/Control Number: 10/048,138

Art Unit: 2882

DETAILED ACTION

Page 2

Allowable Subject Matter

1. Claims 1-43 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claims 1-43 are allowed because prior art fails to teach or make obvious providing Ti doped high purity SiO2 glass element for extreme ultraviolet soft X-ray lithography as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nakajima et al. (US Patent 5,454,021), Oizumi et al. (US Patent 5,485,497), Pew et al. (US Patent 5,485,499) and Niibe et al. (US Patent 5,528,654) disclose the soft X-ray dispersive and reflecting coated structures.

4. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Irakli Kiknadze whose telephone number is 571-272-

2493. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on 571-272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Irakli Kiknadze February 2, 2004 IK

Prinary Examiner

Craig & Church

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